



**AGRIMANAGEMENT**® INC.  
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## Fertility Report

George DeRuyter & Sons (Y281)

F13-0538  
7569

**Field:** GDS-SU-01

**Acres:** 17.8

**Sample Date:** 10/9/2013

**Crop:** Alfalfa

**Irrigation:** Wheel line

**Previous Crop:** 2013 Alfalfa

**Current Crop:** 2014 Alfalfa

**Soil series:** Scoon silt loam

**Leach Hazard:** Low

**No. of Sites:** 20

**Topography:** Gentle SW slope.

**Avg Sampling Depth:** 1.8

**Restrictive layer?** Y **Where?** Caliche and rocks in scattered sites. The west part of the field is the deepest.

**Residue Incorp?** N **Type?**

**Comments:** Sampled a three foot field composite. At the time of sampling, the alfalfa had been cut and was still on the ground. Alfalfa at 2" tall and a 50% canopy.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt	%AW
Field Composite	1'	12	42	12	44	1.1	17.80	3.80	0.66	0.24	22.50	15.9	1.25	72%
Field Composite	2'	7	24										1.25	85%
Field Composite	3'	5	16										1.25	88%
Totals:			82	12	44	1.1								

**Comments:** Residual nitrates are low overall. Ammonium is at equilibrium. Sulfur is adequate, while boron is low. Sodium is favorably low.

Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>P(ac)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	96	258	16.9	1.6	41	2.2	3.4%	7.1	0.29	No

**Comments:** Soil P and Zn are quite high, while K is sufficient. Manganese is low, while Iron and Copper are adequate. Organic matter is high. Soil pH is favorably near neutral and salts are favorably low.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.

## Fertility Report

George DeRuyter & Sons (Y281)

F13-0600  
7570

Field: GDS-SU-02

Acres: 99.1

Sample Date: 10/17/2013

Crop: Triticale-Sudan

Irrigation: Wheel line

Previous Crop: 2013 Alfalfa

Current Crop: 2014 Triticale Sudan

Soil series: Scoon silt loam

Leach Hazard: Low

No. of Sites: 30

Topography: Gently undulating

Avg Sampling Depth: 3.0

Restrictive layer? Y Where? Gravel on the surface, caliche layer.

Residue Incorp? N Type? Alfalfa cultivated, Triticale-Sudan planted.

Comments: Sampled a three foot field composite. At sampling the Triticale was at 2-4" tall. Volunteer alfalfa, corn, and weeds. Whitish soil color on the knolls and ridges.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm	NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt
Field Composite	1'	19	65	7	37	1.6	16.20	3.90	1.04	0.30	21.44	19.2	1.25	75%
Field Composite	2'	24	81										1.25	88%
Field Composite	3'	14	49										1.25	81%
Totals:			195	7	37	1.6								

Comments: The residual nitrates are moderate. Ammonium is in equilibrium. Sulfur is adequate, while boron is possibly marginal. Sodium is favorably lower.

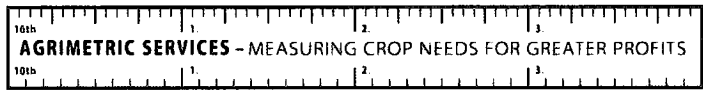
Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>P(ace)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	126	405	12.0	1.3	22	1.7	3.5%	7.3	0.35	Yes

Comments: The soil P, K, and Zn are sufficient. Mn is low, while Fe and Cu are sufficient. Organic matter is high. Soil pH is near neutral, while salts are low.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.



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## Fertility Report

George DeRuyter & Sons (Y281)

F13-0567  
7571

Field: GDS-SU-03

Acres: 28.4

Sample Date: 10/15/2013

Crop: Alfalfa

Irrigation: Wheel line

Previous Crop: 2013 Alfalfa

Current Crop: 2014 Alfalfa

Soil series: Scoon silt loam

Leach Hazard: Low

No. of Sites: 25

Topography: Flat

Avg Sampling Depth: 3.0

Restrictive layer? Y Where? Very rocky, gravelly at the surface.

Residue Incorp? N Type? Alfalfa at 2-4".

Comments: Sampled a three foot field composite. Soil surface dry. The NE 1/3 is more rocky than the rest of the field. Very few weeds.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data	
		ppm	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt
Field Composite	1'	9	29	9	54	1.6	13.30	3.30	0.49	0.16	17.25	1.25	74%
Field Composite	2'	4	12									1.25	84%
Field Composite	3'	3	11									1.25	77%
Totals:			52	9	54	1.6							

Comments: The residual nitrates are low. Ammonium is in equilibrium. Sulfur is sufficient, while boron is marginal. Sodium is favorably low.

Sample Area	Depth	Immobilized Nutrients (ppm)						Chemical Data			
		P <sup>P(ace)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	118	190	11.9	1.6	37	2.1	2.7%	7.3	0.28	Very Slight

Comments: The soil P is high, while K is marginal. Zinc is high, while Mn is low, Fe and Cu are sufficient. Organic matter is well above average. Soil pH is near neutral and salts are favorably low.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.

## Fertility Report

George DeRuyter & Sons (Y281)

F13-0560  
7572

Field: GDS-SU-04

Acres: 135.6

Sample Date: 10/14/2013

Crop: Triticale-Silage Corn

Irrigation: Center pivot

Previous Crop: 2013 Triticale-Silage corn

Current Crop: 2014 Triticale-Silage corn

Soil series: Warden silt loam

Leach Hazard: Low

No. of Sites: 30

Topography: Gently divided sloping

Avg Sampling Depth: 3.0

Restrictive layer? Y Where? Some rocks, mainly in the NW corner.

Residue Incorp? N Type? Scattered cultivation strips.

Comments: Sampled a three foot field composite. Light weed cover. Corn stalk size was normal. Soil surface was dry.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm	NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt
Field Composite	1'	184	624	7	925	10.8	17.10	4.80	6.79	1.27	29.96	16.0	1.25	90%
Field Composite	2'	166	564										1.25	85%
Field Composite	3'	173	587										1.25	100%
Totals:			1774	7	925	10.8								

Comments: The residual nitrates are excessive. Ammonium is in equilibrium. Sulfur and boron are very high. Sodium is slightly to moderately elevated.

Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>F(ace)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	398	2650	13.5	2.9	31	2.8	3.3%	7.8	2.34	Yes

Comments: The soil P and K are very high, and Zn is high. Mn is low, while Iron and Copper are adequate. Organic matter is high. The soil pH remains alkaline and salts are high.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.

## Fertility Report

George DeRuyter & Sons (Y281)

F13-0539  
 7573

Field: GDS-SU-05

Acres: 100.6

Sample Date: 10/9/2013

Crop: Triticale-Silage Corn

Irrigation: Center pivot

Previous Crop: 2013 Triticale-Silage Corn

Current Crop: 2014 Triticale-Silage Corn

Soil series: Warden silt loam

Leach Hazard: Low

No. of Sites: 30

Topography: Gently to moderately undulating.

Avg Sampling Depth: 2.4

Restrictive layer? Y Where? Rocks throughout at scattered sites.

Residue Incorp? N Type? Light stalks, partly disked in early fall.

Comments: Sampled a three foot field composite. There had been moderate to heavy weeds in this field.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt	%AW
Field Composite	1'	263	894	4	972	12.3	17.10	5.10	7.62	1.45	31.27	17.4	1.25	74%
Field Composite	2'	254	864										1.25	72%
Field Composite	3'	263	894										1.25	81%
Totals:		2652		4	972	12.3								

Comments: Residual nitrates are excessive. Ammonium is in equilibrium. Sulfur and boron are very high. Sodium is moderately elevated.

Sample Area	Depth	Immobilized Nutrients (ppm)						Chemical Data			
		P <sup>(acc)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	529	2970	12.8	2.1	17.1	2.6	1.6%	7.7	3.56	Yes

Comments: Soil P, K, and Zn are excessive. Manganese is low, while Iron and Copper are adequate. Soil pH is alkaline, while salts are very high.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.

## Fertility Report

George DeRuyter & Sons (Y281)

F13-0580  
7574

**Field:** GDS-SU-06

**Acres:** 84.5

**Sample Date:** 10/16/2013

**Crop:** Triticale-Silage Corn

**Irrigation:** Center pivot

**Previous Crop:** 2013 Triticale-Silage corn

**Current Crop:** 2014 Triticale-Silage corn

**Soil series:** Warden silt loam

**Leach Hazard:** Low

**No. of Sites:** 32

**Topography:** Gently undulating

**Avg Sampling Depth:** 2.7

**Restrictive layer?** Y **Where?** Scattered moderately compacted zones, and rocks at 18-36".

**Residue Incorp?** N **Type?** Light to moderate stalks and weeds.

**Comments:** Sampled a three foot field composite. Post harvest. Soil surface dry. Scattered light to moderate weeds. Scattered areas with light salts visible on the surface.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt	%AW
Field Composite	1'	47	161	5	384	6.2	17.00	4.30	3.38	0.70	25.38	17.4	1.25	65%
Field Composite	2'	82	277										1.25	75%
Field Composite	3'	102	348										1.25	70%
Totals:		786		5	384	6.2								

**Comments:** Residual nitrates are high. Ammonium is in equilibrium. Sulfur and boron are high. Sodium is slightly elevated.

Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>(acc)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	162	1320	10.1	1.6	17	2.0	2.5%	7.9	0.74	Yes

**Comments:** Soil P, K, and Zn are high. Mn is low, while Fe is marginal, and Cu is sufficient. Organic matter is above average. Soil pH is quite alkaline, while salts are only slightly elevated.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.

## Fertility Report

George DeRuyter & Sons (Y281)

F13-0540  
7575

Field: GDS-SU-07

Acres: 76.6

Sample Date: 10/9/2013

Crop: Alfalfa

Irrigation: Center pivot

Previous Crop: 2013 Alfalfa

Current Crop: 2014 Alfalfa

Soil series: Warden silt loam

Leach Hazard: Low

No. of Sites: 30

Topography: Gently undulating.

Avg Sampling Depth: 2.6

Restrictive layer? Y Where? Rocks in scattered sites.

Residue Incorp? N Type?

Comments: Sampled a three foot field composite. Harvested recently. Alfalfa at 2-3" tall with a 50% canopy overall.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt	%AW
Field Composite	1'	31	104	5	286	5.1	19.90	4.00	1.94	0.72	26.56	16.1	1.25	78%
Field Composite	2'	74	252										1.25	82%
Field Composite	3'	76	257										1.25	74%
Totals:			613	5	286	5.1								

Comments: Residual nitrates are high. Ammonium is in equilibrium. Sulfur and boron are also high. Sodium is only slightly elevated.

Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>P(ac)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	90	757	9.1	1.5	17	2.0	1.9%	7.6	0.48	Yes

Comments: Soil P, K, and Zn are high. Mn is low while Fe and Cu are sufficient. Organic matter is above average. Soil pH is moderately alkaline, while salts are okay.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.



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## Fertility Report

George DeRuyter & Sons (Y281)

F13-0601  
7576

Field: GDS-SU-08

Acres: 165.5

Sample Date: 10/17/2013

Crop: Triticale-Silage Corn

Irrigation: Center pivot

Previous Crop: 2013 Triticale-Silage corn

Current Crop: 2014 Triticale-Silage corn

Soil series: Warden silt loam

Leach Hazard: Low

No. of Sites: 30

Topography: Gentle undulation, south slope.

Avg Sampling Depth: 2.6

Restrictive layer? N Where? Hard pan starting at about 24".

Residue Incorp? N Type? Corn stalks still standing.

Comments: Sampled a three foot field composite. Corn stalks were a fair to average in size, weak and strong stalks were mixed throughout the field. Some smut bodies on the remaining stalks. Salts on the soil surface.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm	NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt
Field Composite	1'	161	549	4	755	9.2	17.10	5.00	7.63	1.27	31.00	17.6	1.25	77%
Field Composite	2'	161	546										1.25	79%
Field Composite	3'	139	472										1.25	74%
Totals:			1567	4	755	9.2								

Comments: The residual nitrates are high. Ammonium is in equilibrium. Sulfur and Boron are high. Sodium is moderately elevated.

### Immobilized Nutrients (ppm)

### Chemical Data

Sample Area	Depth	P <sup>P(ace)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	243	2976	13.7	2.2	25	4.0	3.4%	7.7	1.63	Yes

Comments: The soil P, K, and Zn are very high. Mn is low, while Fe and Cu are sufficient. Organic matter is high. Soil pH is alkaline and salts are moderately elevated.

### Other Data

### Saturated Paste Extraction

Sample Area	Depth	(ppm)		(Tons/Ac)		SMP pH		EC mmhos/cm	
		Cl	HCO <sub>3</sub>	Lime Req	SMP	pH	EC		
Field Composite	1'	33							

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.



## Fertility Report

George DeRuyter & Sons (Y281)

F13-0561  
7577

Field: GDS-SU-09

Acres: 34.6

Sample Date: 10/14/2013

Crop: Triticale-Silage Corn

Irrigation: Center Pivot

Previous Crop: 2013 Alfalfa

Current Crop: 2014 Triticale-Silage Corn

Soil series: Warden silt loam

Leach Hazard: Low

No. of Sites: 30

Topography: Split by swale, gently undulating

Avg Sampling Depth: 2.9

Restrictive layer? Y Where? Some rocks and hard pan.

Residue Incorp? N Type? Light to moderate crowns.

Comments: Sampled a three foot field composite. The average sampling depth was at 34". At the time of sampling the alfalfa was at 1-3" tall. The soil surface was dry. Weeds were minimal, some dandelion. The soil was very compacted. Water in the swale with grassy vegetation.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt	%AW
Field Composite	1'	25	84	3	160	4.3	19.40	4.00	2.05	0.61	26.06	14.5	1.25	70%
Field Composite	2'	28	96										1.25	40%
Field Composite	3'	27	92										1.25	50%
Totals:		272	3	160	4.3									

Comments: Residual nitrates are moderate to high. Ammonium is at equilibrium. Sulfur and boron are plenty high. Sodium is only slightly elevated.

Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>P(ace)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	150	800	8.5	2.5	26	2.0	2.4%	7.5	1.05	Yes

Comments: The soil P, K, and Zn are plenty high. Mn is low, while Fe and Cu are adequate. Organic matter is above average. The soil pH is moderately alkaline, while salts are slightly elevated.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.

## Fertility Report

George DeRuyter & Sons (Y281)

F13-0568  
 7578

Field: GDS-SU-10

Acres: 38.5

Sample Date: 10/15/2013

Crop: Alfalfa

Irrigation: Center pivot

Previous Crop: 2013 Triticale-Silage corn

Current Crop: 2014 Alfalfa

Soil series: Warden silt loam

Leach Hazard: Low

No. of Sites: 25

Topography: Gently undulating

Avg Sampling Depth: 3.0

Restrictive layer? Y Where? Scattered compacted zones at 26-36", caliche in areas.

Residue Incorp? N Type? Light to moderate residue.

Comments: Sampled a three foot field composite. Post harvest. Very light scattered salts on the surface. Light to moderate weeds. Generally good stalk diameter.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm	NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt
Field Composite	1'	49	167	2	153	2.2	19.80	3.00	1.85	0.69	25.34		1.25	75%
Field Composite	2'	38	128										1.25	74%
Field Composite	3'	22	74										1.25	72%
Totals:			369	2	153	2.2								

Comments: The residual nitrates are high. Ammonium is in equilibrium. Sulfur is plenty high, and boron is sufficient. Sodium is slightly elevated.

Sample Area	Depth	Immobile Nutrients (ppm)							Chemical Data			
		P <sup>P(ace)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.	
Field Composite	1'	53	723	4.0	1.2	11	1.1	2.2%	7.8	0.56	Yes	

Comments: The soil P, K, and Zn are plenty high. Mn and Fe are low, while Cu is sufficient. Organic matter is above average. Soil pH is moderately alkaline, while salts are favorably lower.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.

## Fertility Report

George DeRuyter & Sons (Y281)

F13-0581  
7579

Field: GDS-SU-11

Acres: 8.1

Sample Date: 10/16/2013

Crop: Alfalfa

Irrigation: Wheel line

Previous Crop: 2013 Triticale-Sudan grass

Current Crop: 2014 Alfalfa

Soil series: Warden silt loam

Leach Hazard: Low

No. of Sites: 18

Topography:

Avg Sampling Depth: 2.7

Restrictive layer? Y Where? Scattered areas of moderately to significantly compacted soil in the 20-36" range.

Residue Incorp? N Type? Light Sudan residue.

Comments: Sampled a three foot field composite. Post harvest. Alfalfa planted. Scattered areas of light salts on the surface.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data	
		ppm NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt
Field Composite	1'	39	132	9	116	3.6	17.80	4.00	2.32	0.54	24.66	1.25	70%
Field Composite	2'	38	129									1.25	75%
Field Composite	3'	31	104									1.25	80%
Totals:			365	8	116	3.6							

Comments: Residual nitrates are high. Ammonium is in equilibrium. Sulfur and boron are plenty high. Sodium is only slightly elevated.

Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>P(ace)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	161	903	10.4	2.3	28	2.8	3.2%	7.6	0.48	Yes

Comments: Soil P, K, and Zn are high. Mn is low, while Fe and Cu are sufficient. Organic matter is high. Soil pH is medium alkaline, while salts are favorably low.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.

## Fertility Report

George DeRuyter & Sons (Y281)

F13-0527  
 7580

Field: GDS-SU-12

Acres: 40.5

Sample Date: 10/7/2013

Crop: Triticale-Silage Corn

Irrigation: Rill

Previous Crop: 2013 Triticale-Silage corn

Current Crop: 2014 Triticale-Silage corn

Soil series: Warden silt loam

Leach Hazard: Low

No. of Sites: 25

Topography: Very gentle to gentle S-SW slope

Avg Sampling Depth: 2.8

Restrictive layer? Y Where? Compacted soil and rocks in scattered sites.

Residue Incorp? Y Type? Light stalks.

Comments: Sampled a three foot field composite. Stalk diameter is generally okay. Some small weed patches. Closely planted in the West Half.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt	%AW
Field Composite	1'	168	570	9	670	3.0	21.30	4.20	1.73	0.59	27.82	16.1	1.25	80%
Field Composite	2'	125	426										1.25	88%
Field Composite	3'	95	322										1.25	95%
Totals:			1318	8	670	3.0								

Comments: The residual nitrates are high. Ammonium is in equilibrium. Sulfur is high, while boron is sufficient. Sodium is only slightly elevated.

Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>(acc)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	154	675	6.0	3	26	1.6	3.4%	7.2	1.57	Yes

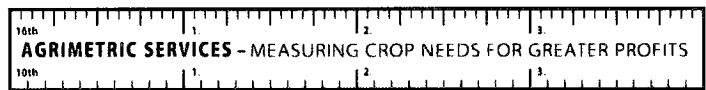
Comments: The soil P, K, and Zn are high. Mn is low, while Fe and Cu are sufficient. Organic matter is high. The soil pH is near neutral, while salts are slightly elevated.

Comments: Given the scattered soil compaction, it is recommended that you could do some ripping. Ripping is best done when the soil profile is slightly moist (as post harvest in the fall).

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.



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## Fertility Report

George DeRuyter & Sons (Y281)

F13-0569  
7581

**Field:** GDS-SU-13

**Acres:** 47

**Sample Date:** 10/15/2013

**Crop:** Alfalfa

**Irrigation:** Wheel line

**Previous Crop:** 2013 Alfalfa

**Current Crop:** 2014 Alfalfa

**Soil series:** Warden silt loam

**Leach Hazard:** Low

**No. of Sites:** 25

**Topography:** Gently Undulating

**Avg Sampling Depth:** 3.0

**Restrictive layer?** Y **Where?** Scattered compaction areas past 18".

**Residue Incorp?** N **Type?**

**Comments:** Sampled a three foot field composite. Post harvest. Light to moderate weeds in the swale.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt	%AW
Duplicate	1'	10	34										1.25	50%
Totals:			34											
Field Composite	1'	10	35	3	95	1.3	19.70	3.50	0.60	0.27	24.07		1.25	50%
Field Composite	2'	7	23										1.25	70%
Field Composite	3'	8	28										1.25	73%
Totals:			86	3	95	1.3								

**Comments:** Residual nitrates are low. Ammonium is in equilibrium. Sulfur is sufficient, while boron is low. Sodium is favorably low.

Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>P(ace)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	104	233	3.6	0.9	9	1.2	2.0%	7.9	0.28	Yes

**Comments:** Soil P is high, while K is marginal to sufficient. Zn is adequate. Mn and Fe are low, while Cu is sufficient. Organic matter is above average. Soil pH is quite alkaline, while salts are favorably low.

**Comments:** Given the scattered soil compaction, it is recommended that you could do some deep ripping. Ripping is best done when the profile is slightly moist (as in the fall, post harvest).

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.



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## Fertility Report

George DeRuyter & Sons (Y281)

F13-0602  
7582

**Field:** GDS-SU-14

**Acres:** 65.2

**Sample Date:** 10/17/2013

**Crop:** Triticale-Sudan

**Irrigation:** Wheel line

**Previous Crop:** 2013 Alfalfa

**Current Crop:** 2014 Triticale-Sudan

**Soil series:** Warden silt loam

**Leach Hazard:** Low

**No. of Sites:** 30

**Topography:** Gently undulating

**Avg Sampling Depth:** 3.0

**Restrictive layer?** Y **Where?** Some caliche in the cores.

**Residue Incorp?** N **Type?** Alfalfa incorporated, Triticale planted.

**Comments:** Sampled a three foot field composite. At the time of sampling the Triticale was at 2-4" tall. Very light weeds. Scattered white soil, mainly on the knolls and steeper slopes. Under irrigation. The swales were pretty wet.

Sample Area	Depth	Mobile Nutrients (lbs/ac)					Exch. / Soluble Bases (meq/100g)					Other Data		
		ppm NO <sub>3</sub>	NO <sub>3</sub>	NH <sub>4</sub>	SO <sub>4</sub>	B	Ca	Mg	K	Na	T.B.	CEC	VolWt	%AW
Field Composite	1'	37	127	6	109	1.4	19.80	3.90	1.03	0.38	25.11	16.6	1.25	105%
Field Composite	2'	32	107										1.25	95%
Field Composite	3'	21	71										1.25	110%
Totals:			305	6	109	1.4								

**Comments:** Residual nitrates are high. Ammonium is in equilibrium. Sulfur is high, while boron is low. Sodium is favorably lower.

Sample Area	Depth	Immobile Nutrients (ppm)						Chemical Data			
		P <sup>(acc)</sup>	K	Zn	Mn	Fe	Cu	O.M.	pH	EC mmhos/cm	Eff/Calc.
Field Composite	1'	57	402	3.0	1.7	19	1.2	1.9%	7.7	0.40	Yes

**Comments:** Soil P, K, and Zn are sufficiently high. Mn is low, while Fe and Cu are sufficient. Organic matter is slightly above average. Soil pH is alkaline and salts are favorably low.

Fertility and chemical data used here to formulate a recommendation was processed and reported by Soil Test, Inc., and Agrimanagement, Inc. soil lab for deep profile nitrates.